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CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE H0001468 4269 Stephen P. Turner 10/24/2000 09/695,814

> 03/24/2004 7590

David G Latwesen Ph D Wells St John 601 West First Avenue Suite 1300 Spokane, WA 99201

EXAMINER MCDONALD, RODNEY GLENN

PAPER NUMBER ART UNIT

1753

DATE MAILED: 03/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)		
		09/695,8	14	TURNER ET AL.		
	Office Action Summary	Examiner	•	Art Unit		
			. McDonald	1753		
Period f	The MAILING DATE of this communication and reply	ppears on the	e cover sheet with the c	orrespondence ad	dress	
THE - Extended - If th - If NO - Failth - Any	HORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR 1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a red period for reply is specified above, the maximum statutory perioure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mail and patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no eve eply within the state od will apply and wi ute, cause the appl	ent, however, may a reply be timutory minimum of thirty (30) daysill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely the mailing date of this co O (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) filed on 25	February 200	04			
2a)□	·	·				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)[\	☐ Claim(s) 108 is/are objected to.					
Applicat	ion Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary (Paper No(s)/Mail Dal			
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date		5) Notice of Informal Pa		-152)	

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REOPENING OF PROSECUTION AND WITHDRAWAL OF FINALITY

Applicant's amendment filed February 25, 2004 will be entered. However the finality in the previous Office Action of January 8, 2004 will be withdrawn and prosecution will be reopened based on a newly discovered reference.

The indicated allowability of claims 104 (claim 104 now incorporating the limitation of previously indicated allowable claim 107which is now cancelled) and 118 is withdrawn in view of the newly discovered reference(s) to Yasunori (Japan 08-255912). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 104 and 118 are rejected under 35 U.S.C. 102(b) as being anticipated by Yasunori (Japan 08-255912).

Yasunori teach that in order to form a titanium film (henceforth a boron doped titanium film), which is doped with boron, the alloy target which is added 5 wt% boron to titanium as target is used. (See Yasunori et al. Machine translation paragraph 0056). (i.e. 5 wt% B and 95 wt% Ti target)

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Allowable Subject Matter

Claims 85, 88-90 and 92-96 are allowed.

Claim 108 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 85, 88-90 and 92-96 are allowable over the prior art of record because the prior art of record does not teach the claimed sputtering target material with the Zr concentration within the target being at least 90%.

Claim 97 is allowable over the prior art of record because the prior art of record does not teach the claimed target including one or more elements selected from the group consisting of Mg, Al, B, Hf, Nb, Ni, Ta, Y and Ti.

Claim 108 is indicated as being allowable over the prior art of record because the prior art of record does not teach the claimed target with the Ti concentration within the target being at least 97%.

This action is made NON-Final in order to give Applicant an opportunity to address the newly cited reference.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rodney G. McDonald Primary Examiner Art Unit 1753

RM March 17, 2004